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UTILITY PATENT APPLICATION TRANSMITTAL <small>(Only for new nonprovisional applications under 37 C.F.R. § 1.53(b))</small>	Attorney Docket No.	81045.1034
	First Inventor or Application Identifier	K.S. Kiyohara
	Title	M&A FOR REGENERATING MESSAGE DATA
	Express Mail Label No.	EL705170765US

APPLICATION ELEMENTS <small>See MPEP chapter 600 concerning utility patent application contents.</small>	ADDRESS TO: Assistant Commissioner for Patents Box Patent Application Washington, DC 20231
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81045.1034

UNITED STATES PATENT APPLICATION

FOR

METHOD AND APPARATUS FOR
REGENERATING
MESSAGE DATA

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General characteristics		Laboratory data		Clinical course		Outcome	
Case	Age (yr)	Sex	Duration (yr)	Onset (yr)	Duration (yr)	Onset (yr)	Duration (yr)
1	45	M	10	10	10	10	10
2	45	M	10	10	10	10	10
3	45	M	10	10	10	10	10
4	45	M	10	10	10	10	10
5	45	M	10	10	10	10	10
6	45	M	10	10	10	10	10
7	45	M	10	10	10	10	10
8	45	M	10	10	10	10	10
9	45	M	10	10	10	10	10
10	45	M	10	10	10	10	10
11	45	M	10	10	10	10	10
12	45	M	10	10	10	10	10
13	45	M	10	10	10	10	10
14	45	M	10	10	10	10	10
15	45	M	10	10	10	10	10
16	45	M	10	10	10	10	10
17	45	M	10	10	10	10	10
18	45	M	10	10	10	10	10
19	45	M	10	10	10	10	10
20	45	M	10	10	10	10	10
21	45	M	10	10	10	10	10
22	45	M	10	10	10	10	10
23	45	M	10	10	10	10	10
24	45	M	10	10	10	10	10
25	45	M	10	10	10	10	10
26	45	M	10	10	10	10	10
27	45	M	10	10	10	10	10
28	45	M	10	10	10	10	10
29	45	M	10	10	10	10	10
30	45	M	10	10	10	10	10
31	45	M	10	10	10	10	10
32	45	M	10	10	10	10	10
33	45	M	10	10	10	10	10
34	45	M	10	10	10	10	10
35	45	M	10	10	10	10	10
36	45	M	10	10	10	10	10
37	45	M	10	10	10	10	10
38	45	M	10	10	10	10	10
39	45	M	10	10	10	10	10
40	45	M	10	10	10	10	10
41	45	M	10	10	10	10	10
42	45	M	10	10	10	10	10
43	45	M	10	10	10	10	10
44	45	M	10	10	10	10	10
45	45	M	10	10	10	10	10
46	45	M	10	10	10	10	10
47	45	M	10	10	10	10	10
48	45	M	10	10	10	10	10
49	45	M	10	10	10	10	10
50	45	M	10	10	10	10	10
51	45	M	10	10	10	10	10
52	45	M	10	10	10	10	10
53	45	M	10	10	10	10	10
54	45	M	10	10	10	10	10
55	45	M	10	10	10	10	10
56	45	M	10	10	10	10	10
57	45	M	10	10	10	10	10
58	45	M	1				

1. FIELD OF THE INVENTION

This invention relates in general to the field of electronic mail processing and more particularly to a method and apparatus for regenerating electronic mail.

2. BACKGROUND ART

Electronic mail messaging (email) is the prime means of communication used to provide customer service support by most Internet based businesses. Customers use email to request information from (or deliver information to) the company's customer service representatives (CSR). Email is also used by the company's electronic systems to communicate without human intervention with customers. Companies that use electronic mail (email) to provide customer service usually need to keep a historical log of all the correspondence between the company's online system and the customers. Such correspondences must be stored in a manageable way so as to enable any entity representative (e.g. a customer service representative) to find information in the historical data.

Figure 1a illustrates the basics of email communication with a client. Customer 100 carries out all email communication through Internet 110. On the company side, an email server processes the inbound email communications. In some instances, past correspondence is needed to assist customers with specific requests. Current systems provide for company personnel to obtain such correspondence by storing each and every email message sent to or received from a customer. Each email message is copied from the server to an email management system 130 attached to a storage device 140.

Storing copies of all email messages and processing them to manage the information is a burdensome task and presents many drawbacks. Historical storage takes up considerable space, whether online or in hard copy, and it is often difficult to retrieve the exact information, in a timely manner as required for a particular customer.

Information must be drawn from stored email messages, which necessitates parsing the stored email messages and finding cues, such as users email addresses and subject contents, in order to sort and group correspondences by topics. This approach is error prone, since customers may use different email addresses to communicate about any given topic, or use different subject content when corresponding about the same topic. To improve the parsing accuracy, a commonly used technique is the use of unique

identifiers. Unique identifiers are, for example, numbers attached to each new email message. By keeping the same number in all subsequent emails, it is possible to track *a posteriori* all related email messages. This method is still prone to inaccuracies; since customers may use same unique numbers for different topics, for example if the customer uses the "reply" functionality, present in many modern email clients, the subject line will include the content of the subject, including any unique identifier.

In addition to shortcomings in parsing email messages, storing a big volume of data is costly in terms of hardware storage media, and in terms of search and processing time. Thus, there is a need for a system that overcomes the limitations of current system by providing for efficient storage and processing of electronic mail data. For example, there is a need for a system that provides a way to regenerate electronic message data without having to store each and every message that is transmitted.

SUMMARY OF THE INVENTION

In one embodiment, the invention comprises a system for regenerating electronic mail. If, for instance, a server program previously sent the user an electronic mail message, that electronic mail message may be regenerated by an embodiment of the invention and retransmitted to the user or provided to support personnel upon request. Thus, the invention provides a mechanism for regenerating previously generated message data. Such message data is typically generated in response to a triggering event. The user initiates the triggering event in one embodiment of the invention, but such an event may also be generated in response to command initiated by any individual having a need to obtain an instance of the previously transmitted message data. For example, any individual associated with the entity that is to transmit the message (e.g., by customer support, technical support, etc...) may initiate a triggering event. The technique utilized to regenerate messages may also be utilized to initially generate messages that are to be transmitted.

Once a triggering event occurs, the system obtains a template associated with the type of triggering event that occurred. Thus, each triggering event may have a type that is related to a particular template. Each template may comprise information related to a particular transaction or activity engaged in by the user (e.g., a customer). Once the template information is obtained, the

system accesses the user's account record to obtain information specific to that user. This user specific information is combined with the template information to generate a personalized message that responds to the triggering event. Once the message is generated it can be transmitted to the user for display.

Once the system transmits the message generated using the template to the user, the system saves data associated with that message in the historical data file (e.g., a log file, text file, and/or any type of database). In one embodiment of the invention such data comprises a portion of the original message data. The historical data file may contain, for example, data utilized to populate the template with information that applies specifically to the user that received the message data. The template data common among all messages of a certain type may be excluded from the data residing in the historical data file. The historical data file may contain information that provides the reason the message was initially transmitted. Thus, the data file may comprise information that identifies why the message was transmitted and what event the message was transmitted in response to. The data file may also include a template ID that identifies which template to utilize.

In one embodiment of the invention, the system comprises a regeneration module configured to retrieve and restore the historical records of each user's transaction and correspondence upon request. If, for example, a duplicate of

the initial message is requested, another instance of the previously generated message may be created.

If a request for a previously transmitted message is initiated, the system obtains the record of the user whom the message was transmitted to on a prior occasion. The user information is extracted from the user record and the relevant template is identified and populated with information from the user record. The populated template is then utilized to re-create a new instance (e.g., an electronic mail message) of a previously transmitted message. Thus, the system can reformulate any message transmitted to a particular user on a prior occasion. For example, the system may reformulate messages initially transmitted to the user when the user registers, or when an existing customer makes a purchase or requests a credit for a previous purchase. However, in one embodiment of the invention, the system may regenerate any type of message data (e.g., text, sound, video, etc...) previously transmitted to the user. Such message data may comprise data associated with an online or offline transaction and may comprise text, sound, video and/or any other type of digital information.

In accordance with one embodiment of the invention, the new message instance provides representatives of the entity that transmitted the original message with a copy of the message to review. Thus, the entity representatives

BRIEF DESCRIPTION OF THE DRAWINGS

These and other features, aspects and advantages of embodiments of the invention will become better understood with regard to the following description, appended claims and accompanying drawings where:

Figure 1a comprises an example of a current system for processing electronic mail messages.

Figure 1b comprises a flow chart illustrating the process utilized by an embodiment of the invention to generate and then subsequently regenerate message data transmitted to a user;

Figure 2 illustrates the process utilized by an embodiment of the invention to regenerate an instance of a previously transmitted message;

Figure 3 illustrates the interface utilized by an entity representative to locate messages associated with a particular user in accordance with one embodiment of the invention;

Figure 4 illustrate the search results interface in accordance with one embodiment of the invention;

Figure 5 illustrates a detailed view of the user account information in accordance with one embodiment of the invention;

Figure 6 illustrates a message history interface in accordance with an embodiment of the invention;

Figure 7 comprises an illustration of a message that was previously transmitted to the user and subsequently regenerated by the system in accordance with one embodiment of the invention;

Figures 8 illustrates the process utilized by an embodiment of the invention to generate a new instance of message;

Figure 9 illustrates the data flow for creating and regenerating messages in accordance with one embodiment of the invention;

Figure 10 illustrates a more detailed version of the system flow utilized to generate an electronic mail message in accordance with one embodiment of the invention;

Figure 11 illustrates a general hardware environment configured to execute an embodiment of the invention.

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DETAILED DESCRIPTION OF THE INVENTION

In one embodiment, the invention comprises a system for regenerating electronic mail when a certain event transpires. If, for instance, a server program has previously sent the user an electronic mail message, that electronic mail message may be regenerated by an embodiment of the invention and retransmitted to the user or provided to support personnel upon request.

In the following description, numerous specific details are set forth to provide a more thorough description of the present invention. It will be apparent, however, to one skilled in the art, that the present invention may be practiced without these specific details. In other instances, well known features have not been described in detail so as not to obscure the present invention.

In order to provide adequate service to users, it is helpful for the individuals (or entities) who provide such services to have access to information previously communicated to the users. For example, technical support personnel or any other individual that represents the a particular entity can more expediently help a user solve a particular issue when the individual has access to the history of messages that have already been communicated to the user. Such historical information may comprise customer information, account status information, transaction information, prior correspondence, electronic

mail messages, notes about previous conversations, recordings of prior conversations, and/or any other type of information containing information relevant to the issue the user is inquiring about. This historical information (or any other type of information sent to the user) may be regenerated and provided to the entity representative or the user for information purposes. Regenerating previously stored messages provides the capability to optimally store such historical information. In one embodiment of the invention, the system stores only the applicable information that appeared on the initial email template and not the entire email message. The specific information contained in the body of the email message may be stored in the Name Value Pairs field (See e.g., SentLog table described below for the fields and descriptions that are saved in the message data file.) For example, the Name Value pairs may contain information such as the balance remaining in the user's account, information about a credit card charge, or the amount of a particular purchase (e.g., the purchase of online postage).

An embodiment of the invention provides the capability to immediately store and accurately retrieve historical information. For example, an embodiment of the invention may store final calculations as they initially appeared on the original message. The system is therefore not required to recalculate or reprocess the data when it is requested again. All the data is

calculated the first time the email is created and sent to the customer. The calculated values are stored in the message data file and then retrieved on demand to display in the regenerated message. The data stored in the data file may be stored immediately (or a some time interval) after the system sends the message to the customer, so the values are the current and accurate. The system does not have to recalculate information on historical values so there is less chance of error and the regenerated email information is reliable.

With existing system entity representatives (e.g., Customer Support Representative) have difficulty relocating information previously provided to a customer. It can take an unreasonable amount of time to search through the entire system and find the exact information in question. Problems arise when information is stored in different data files and the system must retrieve, process and display information from different data files. If a system searches through and extracts data from multiple data files, it is much slower than searching for and extracting data from only one data file.

Using the message regeneration feature in accordance with one embodiment of the invention solves these problems. The system implementing an embodiment of the invention may store all the transactional data for the customer and the required template information in the same data file. When the entity representative wants to review an email message, the system goes

only to one data file and quickly extracts and displays the correct data in the correct template and regenerates the requested email.

System Overview:

An embodiment of the invention provides messaging services to an entity that transmits message data (e.g., electronic mail messages) to a plurality of users. Such message data is typically generated in response to a triggering event. The triggering event is initiated in one embodiment of the invention by the user, but such events may also be generated in response to a command initiated by any entity associated with the transmitted message (See e.g., Figure 1b, step 100). A triggering event may comprise any type of event complemented by the transmission of a message subsequent to the event. For example, a triggering event may comprise a technical support request, a customer service request, an account status inquiry, a service inquiry, a general information request, and/or any other type of inquiry.

The triggering event may also comprise a certain task or command initiated by the receiving user and/or the user who operates the system. For example, when a user performs certain tasks using a client program and the user wishes to receive confirmation of that task, a triggering event may be initiated. The system is designed in such a way that triggering events may be

defined as any type of event where information is accepted from the user. For example, if a user purchases goods and/or services the purchase acts as a triggering event for the transmission of a message confirming the transaction.

In one embodiment of the invention, when a triggering event occurs the system obtains a template associated with the triggering event (e.g., at step 102). The system may be provided with access to a variety of templates. Each template comprises information associated with one or more triggering events. For instance, each template may contain information related to a particular transaction or activity engaged in by the user. The system may contain a template that, for example, provides the user with confirmatory information, order information, purchase information, registration information, technical support information, and/or any other information related to an action (or inaction) of the user.

Once the template information is obtained, the system accesses the user's account record to obtain information specific to that user (e.g., at step 104). This user specific information is combined with the template information to generate a personalized message that responds to the triggering event (e.g., at step 106). Any calculations or processor intensive operations may performed at this step. Once the message is generated it can be transmitted to the user (e.g., at step 108).

file thereby comprises the transaction information contained in previously transmitted messages. The historical data file may also contain other information needed to regenerate the message using minimal processing activity (e.g., calculated data). The specific details stored in the historical data file in accordance with one embodiment of the invention are displayed below in the sentlog table. However, the historical data file may contain other information related to the message that was transmitted.

In one embodiment of the invention, the system comprises a regeneration module configured to retrieve and restore the historical records of each customer's transaction and correspondence upon request. At step 112, an embodiment of the invention determines if another instances of the original message was requested. If a duplicate of the initial message is requested, step 114 executes and a duplicate of the message is created.

Figure 2 illustrates the process utilized by an embodiment of the invention to regenerate or duplicate an instance of a previously transmitted message. The message regeneration process initiates when the user or a representative tasked with helping the user initiates a request for a previously transmitted message. Thus, at step 200, an embodiment of the invention determines if a request for a previously transmitted message was initiated (e.g., does request exist in sentlog). If such a request was initiated, the system obtains

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the record of the user whom the message was transmitted to on a prior occasion (e.g., at step 202). At step 204, user information is extracted from the user record. Once the user information is obtained, the system determines which template was utilized to generate the original message (e.g., at step 206).

The system then obtains the proper template file (e.g., at step 208) and populates the template (e.g., at step 210) with the information extracted from a record associated with the user. This record may contain previously calculated information, user specific information, and/or general information which comprises previously calculated information, user specific information and/or any other type of data related to the message. Once the record is accessed, the populated template is then utilized to re-create a new instance (e.g., a electronic mail message) of a previously transmitted message. Thus, the system can reformulate any message transmitted to a particular user on a prior occasion. For example, the system may reformulate messages initially transmitted to the user when the user registers, or when an existing customer makes a purchase or requests a credit for a previous purchase. However, in one embodiment of the invention, the system may regenerate any type of message data (e.g., text, sound, video, etc...) transmitted to the user on a prior occasion. Such message data may comprise data associated with an online or offline transaction and may comprises text, sound, video and/or any other type of digital information.

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In accordance with one embodiment of the invention, the new message instance provides representatives of the entity that transmitted the original message with a copy of the message to review. Thus, the entity representative can determine what kind of message data has already been communicated to the user and utilize this message to assist the user. The entity representative may, for example, elect to transmit the new instance of the message data to the user so as to provide the user with another copy of the message.

If, the user has any questions or issues regarding the status of an item confirmed via email, the entity representative may utilize an embodiment of the invention to lookup the user's account history data. The account history data comprises a listing by title, subject, or category of the electronic mail messages previously transmitted to the user. If the entity representative wishes to review one or more of the messages on the list the representative may select the message title that causes the system to regenerate the message and display the result to the representative for review (e.g., at step 214).

In one embodiment of the invention, the title of the message (or some other icon or text representative of the message) comprises a link (e.g., a hyperlink or button). When the link is selected, a page comprising a new instance of the message previously sent to the user is displayed. The message may be regenerated utilizing the information contained in the historical data

Parameter	Control		100 mg/kg		200 mg/kg		400 mg/kg		800 mg/kg	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Body weight (g)	210.0	10.0	210.0	10.0	210.0	10.0	210.0	10.0	210.0	10.0
Food intake (g)	10.0	2.0	10.0	2.0	10.0	2.0	10.0	2.0	10.0	2.0
Water intake (ml)	10.0	2.0	10.0	2.0	10.0	2.0	10.0	2.0	10.0	2.0
Urine volume (ml)	10.0	2.0	10.0	2.0	10.0	2.0	10.0	2.0	10.0	2.0
Urine pH	7.0	0.5	7.0	0.5	7.0	0.5	7.0	0.5	7.0	0.5
Urine creatinine (mg/dl)	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2
Urine protein (mg/dl)	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2
Urine glucose (mg/dl)	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2
Urine ketone (mg/dl)	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2
Urine bilirubin (mg/dl)	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2
Urine urobilinogen (mg/dl)	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2
Urine urobilin (mg/dl)	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2
Urine urobilinogen (mg/dl)	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2
Urine urobilin (mg/dl)	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2
Urine urobilinogen (mg/dl)	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2
Urine urobilin (mg/dl)	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2
Urine urobilinogen (mg/dl)	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2
Urine urobilin (mg/dl)	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2
Urine urobilinogen (mg/dl)	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2
Urine urobilin (mg/dl)	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2
Urine urobilinogen (mg/dl)	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2
Urine urobilin (mg/dl)	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2
Urine urobilinogen (mg/dl)	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2
Urine urobilin (mg/dl)	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2
Urine urobilinogen (mg/dl)	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2
Urine urobilin (mg/dl)	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2
Urine urobilinogen (mg/dl)	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2
Urine urobilin (mg/dl)	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2
Urine urobilinogen (mg/dl)	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2
Urine urobilin (mg/dl)	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2
Urine urobilinogen (mg/dl)	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2
Urine urobilin (mg/dl)	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2
Urine urobilinogen (mg/dl)	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2
Urine urobilin (mg/dl)	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2
Urine urobilinogen (mg/dl)	1.0	0.2	1.0	0.2	1.0	0.2	1.0	0.2	1.0	

Parameter	Control		Fertilizer		Fertilizer + Pesticide	
	Mean	SE	Mean	SE	Mean	SE
Grain yield (t/ha)	1.25	0.05	1.35	0.05	1.45	0.05
Stubble yield (t/ha)	0.85	0.05	0.95	0.05	1.05	0.05
Grass yield (t/ha)	0.45	0.05	0.55	0.05	0.65	0.05
Legume yield (t/ha)	0.35	0.05	0.45	0.05	0.55	0.05
Grain N (g/kg)	15.5	0.5	16.5	0.5	17.5	0.5
Stubble N (g/kg)	10.5	0.5	11.5	0.5	12.5	0.5
Grass N (g/kg)	5.5	0.5	6.5	0.5	7.5	0.5
Legume N (g/kg)	4.5	0.5	5.5	0.5	6.5	0.5
Grain P (g/kg)	0.85	0.05	0.95	0.05	1.05	0.05
Stubble P (g/kg)	0.55	0.05	0.65	0.05	0.75	0.05
Grass P (g/kg)	0.25	0.05	0.35	0.05	0.45	0.05
Legume P (g/kg)	0.15	0.05	0.25	0.05	0.35	0.05
Grain K (g/kg)	12.5	0.5	13.5	0.5	14.5	0.5
Stubble K (g/kg)	8.5	0.5	9.5	0.5	10.5	0.5
Grass K (g/kg)	4.5	0.5	5.5	0.5	6.5	0.5
Legume K (g/kg)	3.5	0.5	4.5	0.5	5.5	0.5

Parameter	Control		Fertilizer		Fertilizer + Pesticide	
	Mean	SE	Mean	SE	Mean	SE
Grain yield (t/ha)	1.25	0.05	1.35	0.05	1.45	0.05
Stubble yield (t/ha)	0.85	0.05	0.95	0.05	1.05	0.05
Grass yield (t/ha)	0.45	0.05	0.55	0.05	0.65	0.05
Legume yield (t/ha)	0.35	0.05	0.45	0.05	0.55	0.05
Grain N (g/kg)	15.5	0.5	16.5	0.5	17.5	0.5
Stubble N (g/kg)	10.5	0.5	11.5	0.5	12.5	0.5
Grass N (g/kg)	5.5	0.5	6.5	0.5	7.5	0.5
Legume N (g/kg)	4.5	0.5	5.5	0.5	6.5	0.5
Grain P (g/kg)	0.85	0.05	0.95	0.05	1.05	0.05
Stubble P (g/kg)	0.55	0.05	0.65	0.05	0.75	0.05
Grass P (g/kg)	0.25	0.05	0.35	0.05	0.45	0.05
Legume P (g/kg)	0.15	0.05	0.25	0.05	0.35	0.05
Grain K (g/kg)	12.5	0.5	13.5	0.5	14.5	0.5
Stubble K (g/kg)	8.5	0.5	9.5	0.5	10.5	0.5
Grass K (g/kg)	4.5	0.5	5.5	0.5	6.5	0.5
Legume K (g/kg)	3.5	0.5	4.5	0.5	5.5	0.5

to the TemplateURL table the TemplateMap table is modified to reflect that update.

In one embodiment of the invention, the system utilizes a template to generate and regenerate electronic mail messages, thus the system is not typically required to store the entire contents of each previously transmitted message. Instead, the system store data that is specific to the customer and utilizes the template to obtain other information pertinent to the message that is to be generated. Thus, an embodiment of the invention provides a mechanism for regenerating message data associated with a particular user without necessitating the storage of such information.

Figures 3-7 provide an example of the interfaces displayed to the entity representative in order to regenerate a message previously transmitted to a particular user. The interfaces shown here are for example purposes only. The invention contemplates the use of graphical user interfaces and other types of interfaces (e.g., command line) that contain more or less information than what is illustrated in Figure 3-7.

Figure 3 illustrates the interface utilized by an entity representative (e.g., customer support) to locate messages associated with a particular user. Interface 300 may be embedded in any type of client or server based program (e.g., browser 304). In one embodiment of the invention, interface 300

comprises a search window 302 that contains locations 306-312. The entity representative may utilize locations 306-312 to define search criteria. For example, search parameters such as a last name, first name, phone number, user name, email address, account number, customer ID, or any other identifying information may be entered in locations 306-312. The entity representative may clear the information contained in locations 306-312 by selecting clear button 314. Once the entity representative has placed information in at least one of the search locations, the entity representative may select search button 313. When search button 313 is selected, the historical data file is queried for information contained in the search parameters. The results of the search query are returned in results window 400.

Figure 4 illustrates the search results window in accordance with one embodiment of the invention. Search results window 400 comprises a list of possible matches generated from the query submitted when search button 313 was selected. If, for example, the searching user (e.g., the entity representative) entered a search parameter that indicated the last name was "smith", results 401-420 would be displayed. Each result 401-420 comprises data that matches the search parameter that was entered. Each result displays user information 421 (e.g., name, user ID, user name, email, phone number, account number, and/or other information about the user in search results window 400. The

entity representative may select one of the results or a portion of the result (e.g., the user ID) to obtain further information about that particular record.

Figure 5 illustrates a detailed view of the user account information in accordance with one embodiment of the invention. The account details for the selected user appear in user profile window 500. User information header 502 comprises data that uniquely identifies the user (e.g., the user's last name, first name, middle name, user name, customer ID, and account number). User profile window 500 comprises account status information 504 and contact information 506.

To review email messages, the entity representative may select Message history link 508 at the top of the window. Upon selection of the Message history link a list of the messages (e.g., electronic mail messages) previously transmitted to the selected user appear in a message history window.

Figure 6 illustrates a message history interface in accordance with an embodiment of the invention. Message history interface 600 comprises a list of messages sent to the user (e.g., the customer on a prior occasion). Each entry in the list comprises identifying information 602. The invention contemplates different types of identifying information 602. Each piece of identifying information is typically provided in order to aid the entity representative in locating or identifying the contents of the message. However, identifying

information 602 may be provided for other purposes. In accordance with one embodiment of the invention, identifying information 602 comprises information associated with a previously transmitted message (e.g., an electronic mail). In this instances identifying information comprises a status field, a from field, a to field, a subject field, a date field, and/or any other field that has information useful to the searching user (e.g., the entity representative). The status field indicates whether the message was sent and if so whether confirmation of the transmission of the message was ever received. The status field may, for example, contain text stating the message was "sent (not confirmed)".

The from field indicates the originating party. Thus, the from field may contain the name or electronic mail address associated with the party who initially transmitted the message (e.g., "Customer Support – support@stamps.com or Technical Support – techsupport@stamps.com"). The to field comprises an address associated with the user that received the message. The subject field identifies what the subject of the transmitted message was and the date field indicates the date the message was sent.

When the user (e.g., the entity representative) identifies a particular message that is to be regenerated (e.g., by selecting a portion of the identifying information) the system provides a new instance of the message. Figure 7

comprises an illustration of a message that was previously transmitted to the user and subsequently regenerated by the system. The message shown in Figure 7 is for example purposes only. It is important to note that an embodiment of the invention may be utilized to generate and then subsequently regenerate any type of message. The message shown in Figure 7 comprises a "welcome" message 700 that was transmitted to the user when the user initially registered for a service provided by the entity associated with transmitting message 700. Certain portions of this "welcome" message 700 are generated using information from one or more template files whereas other portions of the "welcome" message 700 are extracted from one or more user records. In one embodiment of the invention message 700 comprises header portion 702 and body portion 704. Header portion 702 contains the addressing information (e.g., from, to, subject, date) and body portion contains text or some other type of data.

In one embodiment of the invention, the "welcome" message shown in Figure 7 was regenerated using the template utilized to initially create the message and the data values stored in the historical data file at the time the message was initially generated. The original data values for the message shown comprise:

- date and time the email was initially created
- To: name

- From: name
- subject: title of the email message
- customer's name
- initial postage purchase amount
- amount of free postage due this customer

This information is combined with the template data and utilized to generate a second instance of the message for use by the entity representative. The entity representative may utilize the message for informational purposes or elect to transmit the message to the user. If the entity representative wishes to obtain another message (e.g., a different type), the representative may go back to the Message history interface and select another message for display.

System Level Description:

When the entity representative views the Message history list an embodiment of the invention utilizes the process illustrated in Figure 8 to generate a new instance of the selected message. The process begins at step 800 when the entity representative (or some other user) initiates a command to obtain a list of messages associated with a particular user ID. Once the system obtains the command, the system executes step 802 where it queries the historical data file (e.g., the sentlog table in the message data file) and then displays (e.g., at step 804) a list of all email messages that correspond to the selected User ID. In one embodiment of the invention, the command request is

transmitted through a web server and an ASP is utilized to generate the list of messages that are to be displayed. The ASP is configured to display the list of messages that apply only to the selected user.

Once the message list is generated, the entity representative locates the message and chooses a particular message (e.g., by selecting a portion of the message). At step 806, the system determines if the user has selected a message contained in the list. When a message is not selected, the system waits for a selection or exits. If a message identified in the list is selected the system obtains a record that matches the selected message (e.g., at step 808) from the sentlog table. The following table illustrates the contents of the sentlog table (e.g., sentlog 904) in accordance with one embodiment of the invention.

Sentlog Table

Field	Description
Cust ID	customer identification number
TemplateURLID	identification number for the URL that displays a specific version of the template
SentNVPairs	Sent Name Value Pairs – the personalized data for the selected customer that appears in the email template. The data is stored in the table as a string of text, up to 7168 characters long.
Status	status of the customer account
DateSent	date and time the initial email message was sent
DateServerReceipt	date the destination SMTP server received the message (currently not used)
DateReadReceipt	date the destination user opened the message (currently not used)
MsgFrom	sender of the message as appeared in the From:

	field in the email.
MsgTo	recipient of the message as appeared in the To: field in the email.
MsgSubject	subject of the email as appeared in the Subject: field in the email.
MsgID	identification number of the email message.

In one embodiment of the invention the matching record contains information from the sentlog table. A script of computer program (e.g., a PERL script, JAVA program, or any other type of computer readable program code) may be utilized to pick the matching record from the sentlog table. The matching record may contain, for example, the following information:

- Customer ID
- Template URL ID
- Data string from in the template fields
- Status of account
- Date/time when email was originally sent
- Send to: email address
- To: email address
- Email subject;
- Message ID

The system then executes step 810 where it retrieve the data stored in the sentlog and sends it to a template URL. The template URL is mapped to a template ID and name. The following table shows the TemplateURL table (e.g., Template URLs 901) layout in accordance with one embodiment of the invention.

TemplateURL Table

Field	Description
-------	-------------

TemplateURL-ID (902)	Identification number for the URL for a specific template
URL	URL pointing to a template file.

Templates are periodically updated and the system is configured to use the most recently updated version. However, in some instances other template versions are utilized. If, for example, a message was generated using an template that is no longer flagged as active, but that template still contains information relevant to the transaction, the system may utilize an out-of-date template.

Figure 9 illustrates the data flow for creating and regenerating messages in accordance with one embodiment of the invention. MessageRequest Queue 906 comprises a list of message requests initiated by client 921 and sent via server 920. A request may comprises a regenerate message request or a create message request. An illustration of the information contained in TemplateMap 900 follows.

TemplateMap Table

Field	Description
TemplateType	Template identification number

When the data (e.g., customer / user data) is sent to the template, the system generates (or regenerates) the message using the matching data and the template data (e.g., at step 812). In one embodiment of the invention, the text of the message and sends XML data back to the program that located the match (e.g., the Perl code). However, the invention also contemplates the use of separate programs that pass parameters between one another to implement an embodiment of the invention and is not limited solely to XML. For example, the invention may be implemented using any type of programming language capable of storing template and user information. A sample of the XML data that represents the "welcome" message discussed above follows:

```
<?xml version="1.0" ?>
<xmlStampsMessage>
  <xmlMessageFrom>"Stamps.com Customer Support"
    <support@stamps.com></xmlMessageFrom>
  <xmlMessageTo>sdct01_us@yahoo.com</xmlMessageTo>
  <xmlMessageSubject>Welcome to
    Stamps.com!</xmlMessageSubject>
  <xmlMessageDate>Wed, 29 Mar 2000 19:12:02 -
    0000</xmlMessageDate>
  <xmlMessageBody>Dear Jon, Congratulations! Your official U.S. Postal
    Service Postage License has been approved by the U.S. Postal
    Service; you are now ready to start printing postage with
    Stamps.com. Double-click on the Stamps.com icon on your desktop
    and then click on [Print Postage]. You can now print postage from
    your printer 24 hours a day, 7 days a week! Your initial Postage
    Purchase of $10.00 has been added to your postage account. The
    service plan you chose entitles you to $20.00 of FREE postage,
    which has also been added to your account. Your total postage
    account balance is now $30.00. Please do not hesitate to contact the
    Customer Support Team if you have any questions or need any
    further assistance. We are available any time day or night via
    LiveAnswer at www.stamps.com/support/, email at
    support@stamps.com, or toll-free phone at 1-888-434-0055. Your
    user name is sdct1. Thanks again for using the Stamps.com Internet
    Postage service! Sincerely, Stamps.com Customer Support Team
```



```

http://www.stamps.com/support
*****
*** For more information about Stamps.com Internet PostageTM,
visit us at www.stamps.com
*****
***</xmlMessageBody>
- <xmlPropertyLog>
  <xmlNVPair>getMessageDate=Wed, 29 Mar 2000 19:12:02 -
    0000</xmlNVPair>
  <xmlNVPair>getCustProp.UserName=sdct1</xmlNVPair>

    <xmlNVPair>getRequestItem.strMeterAmount=$30.00</xmlNV
    Pair>
  <xmlNVPair>getRequestItem.shopper_id=005a0850-
    000001f4</xmlNVPair>
  <xmlNVPair>getOrderFormProp.bill_now=1000</xmlNVPair>

    <xmlNVPair>getRequestItem.strFreePostageAmt=$20.00</xml
    NVPair>
  <xmlNVPair>getCustProp.FirstName=Jon</xmlNVPair>
  <xmlNVPair>getRequestItem.cn=005a0850</xmlNVPair>

    <xmlNVPair>getCustProp.eMailAddress=sd01_us@yahoo.com
    </xmlNVPair>
</xmlPropertyLog>
<xmlTemplateErrorCode>0</xmlTemplateErrorCode>
</xmlStampsMessage>

```

The program that accepts the XML data then reformats the XML to a format that can be readily displayed to the user (e.g., HTML, SGML, Javascript, or any other language that can be utilized to display data). Once the XML is reformatted it may be displayed to the entity representative that selected the message from the list in the first instance.

Figure 10 illustrates a more detailed version of the system flow utilized to generate an electronic mail message in accordance with one embodiment of the invention. The process initiates when the user requests the message (e.g. at

step 1000). The message may be directly or indirectly requested. For example, the user may explicitly ask to receive a certain type of information (a direct request) or the message may be generated as part of a transaction (e.g., when the user registers or makes some type of inquiry). An indirect request may also comprise messages initiated by a third-party and/or messages that are automatically transmitted at certain intervals (e.g., listserv messages and or email subscription services). Once the request is sent, step 1002 executes. At step 1002, the request is stored in an email request queue. At step 1004, the request is retrieved from the email database and processing of the request is initiated. At step 1006, the text associated with a specific user ID is retrieved from the user records. Once the text is retrieved, the email is generated using the customer text data and a template file (e.g., at step 1008). In one embodiment of the invention, a representation of the email is generated (e.g., at step 1010). For example, an XML file may be created utilizing the template data and the customer text data. The email representation is then transmitted to a mail server (e.g., at step 1012) where it is forwarded using SMTP or some other data transport protocol. The information that is sent is stored in one embodiment of the invention in a log file (e.g., the sentlog file). However, the data may be stored in any file that is arranged to hold historical information.

Embodiment of Computer Execution Environment:

An embodiment of the invention can be implemented as computer software in the form of computer readable program code executed on one or more general-purpose computers such as the computer 1100 illustrated in Figure 11. A keyboard 1110 and mouse 1111 are coupled to a bi-directional system bus 1118 (e.g., PCI, ISA or other similar architecture). The keyboard and mouse are for introducing user input to the computer system and communicating that user input to central processing unit (CPU) 1113. Other suitable input devices may be used in addition to, or in place of, the mouse 1111 and keyboard 1110. I/O (input/output) unit 1119 coupled to bi-directional system bus 1118 represents possible output devices such as a printer or an A/V (audio/video) device.

Computer 1100 includes video memory 1114, main memory 1115, mass storage 1112, and communication interface 1120. All these devices are coupled to a bi-directional system bus 1118 along with keyboard 1110, mouse 1111 and CPU 1113. The mass storage 1112 may include both fixed and removable media, such as magnetic, optical or magnetic optical storage systems or any other available mass storage technology. The system bus 1118 provides a means for addressing video memory 1114 or main memory 1115. The system bus 1118 also provides a mechanism for the CPU to transferring data between

and among the components, such as main memory 1115, video memory 1114 and mass storage 1112.

In one embodiment of the invention, the CPU 1113 is a microprocessor manufactured by Motorola, such as the 680X0 processor, an Intel Pentium III processor, or an UltraSparc processor from Sun Microsystems. However, any other suitable processor or computer may be utilized. Video memory 1114 is a dual ported video random access memory. One port of the video memory 1114 is coupled to video accelerator 1116. The video accelerator device 1116 is used to drive a CRT (cathode ray tube), and LCD (Liquid Crystal Display), or TFT (Thin-Film Transistor) monitor 1117. The video accelerator 1116 is well known in the art and may be implemented by any suitable apparatus. This circuitry converts pixel data stored in video memory 1114 to a signal suitable for use by monitor 1117. The monitor 1117 is a type of monitor suitable for displaying graphic images.

The computer 1100 may also include a communication interface 1120 coupled to the system bus 1118. The communication interface 1120 provides a two-way data communication coupling via a network link 1121 to a network 1122. For example, if the communication interface 1120 is a modem, the communication interface 1120 provides a data communication connection to a corresponding type of telephone line, which comprises part of a network link

1121. If the communication interface 1120 is a Network Interface Card (NIC), communication interface 1120 provides a data communication connection via a network link 1121 to a compatible network. Physical network links can include Ethernet, wireless, fiber optic, and cable television type links. In any such implementation, communication interface 1120 sends and receives electrical, electromagnetic or optical signals which carry digital data streams representing various types of information.

The network link 1121 typically provides data communication through one or more networks to other data devices. For example, network link 1121 may provide a connection through local network 1122 to a host computer 1123 or to data equipment operated by an Internet Service Provider (ISP) 1124. ISP 1124 in turn provides data communication services through the world wide packet data communication network now commonly referred to as the "Internet" 1125. Local network 1122 and Internet 1125 both use electrical, electromagnetic or optical signals that carry digital data streams to files. The signals through the various networks and the signals on network link 1121 and through communication interface 1120, which carry the digital data to and from computer 1100, are exemplary forms of carrier waves for transporting the digital information.

The computer 1100 can send messages and receive data, including

program code, through the network(s), network link 1121, and communication interface 1120. In the Internet example, server 1126 might transmit a requested code for an application program through Internet 625, ISP 1124, local network 1122 and communication interface 1120.

The computer systems described above are for purposes of example only. An embodiment of the invention may be implemented in any type of computer system or programming or processing environment. When a general-purpose computer system such as the one described executes the process and process flows described herein, it is configured to provide a mechanism for regenerating message data.

Thus, a method and apparatus for regenerating message data has been described. Particular embodiments described herein are illustrative only and should not limit the present invention thereby. The claims and their full scope of equivalents define the invention.

CLAIMS

What is claimed is:

1. A computer program product comprising:

a computer usable medium having computer readable program code for regenerating message data embodied therein, said computer readable program code configured to:

generate a first message;

transmit said first message to a first user;

obtain an inquiry from a second user for a duplicate of said first message;

regenerate said duplicate of said first message in response to said inquiry.

2. The computer program product of claim 1 wherein said first message is generated in response to a triggering event.

3. The computer program product of claim 1 wherein said computer readable program code configured to regenerate said duplicate further comprises computer program code configured to:

ABSTRACT OF THE INVENTION

In one embodiment, the invention comprises a system for regenerating electronic mail when a certain event transpires. If, for instance, a server program has previously sent the user an electronic mail message, that electronic mail message may be regenerated by an embodiment of the invention and retransmitted to the user or provided to support personnel upon request. Thus, the invention provides a mechanism for regenerating previously generated messages.

0069141 101800
008101 1627650

FIGURE 1a

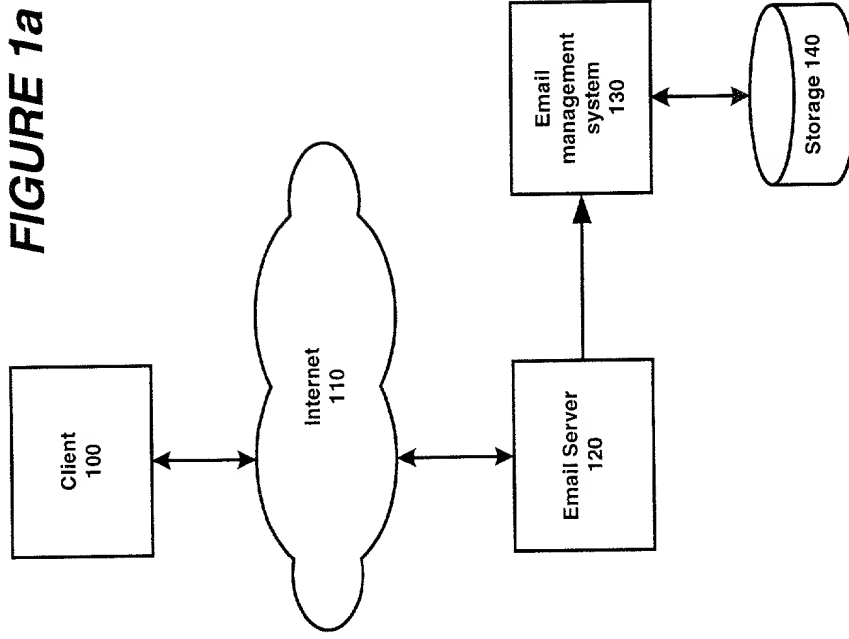


FIGURE 1b

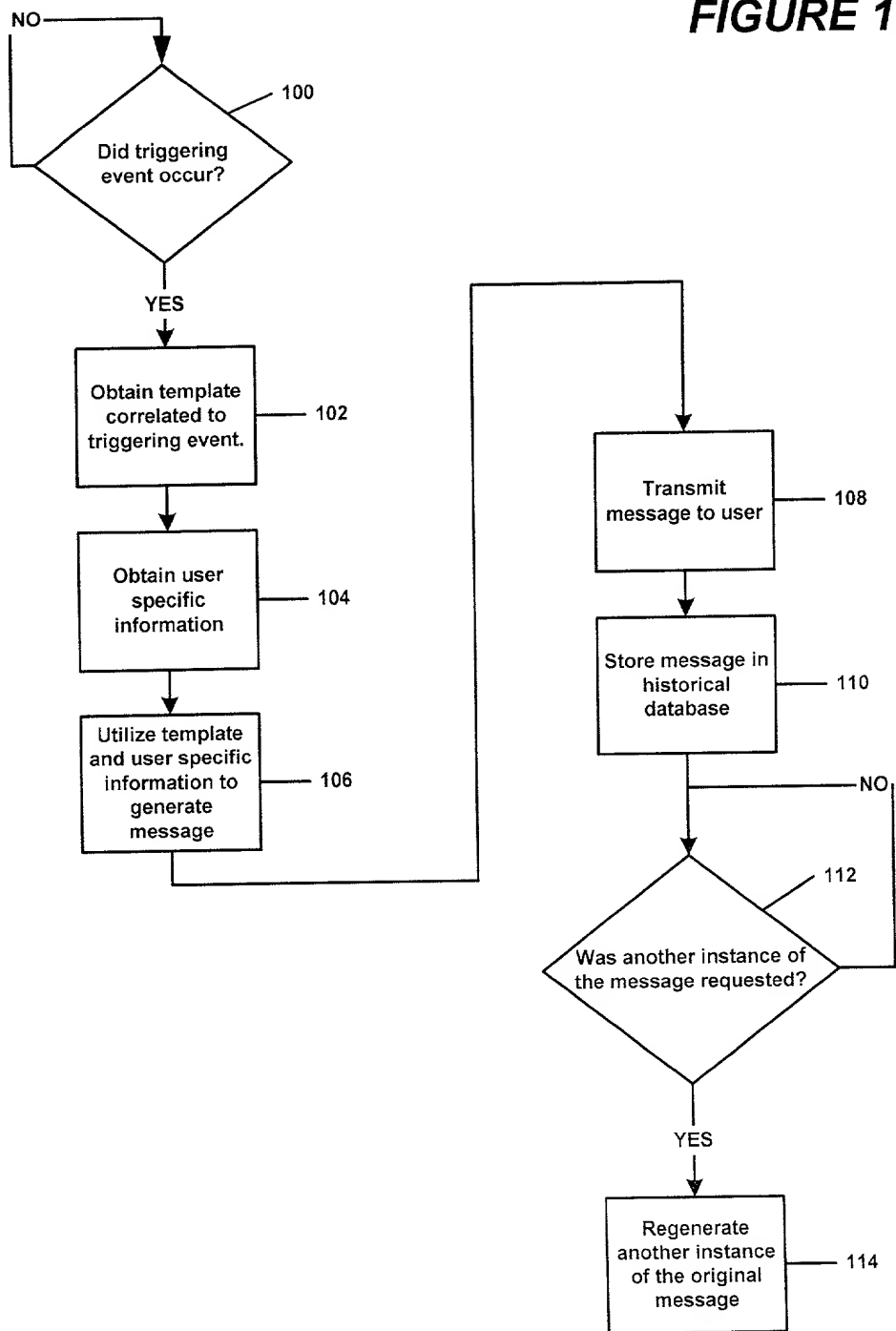


FIGURE 2

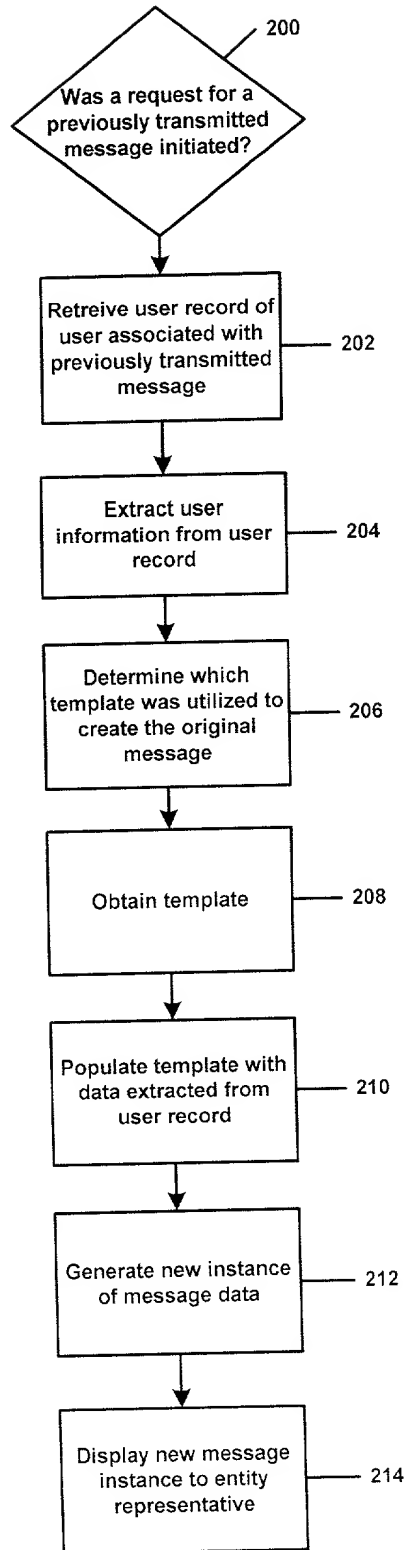


FIGURE 3

Customer Search - Netscape

File Edit View Go Communicator Help

Bookmarks Location http://trebek.82/cs/default.asp What's Related

stamps.com Customer Support

Information Systems Stamps.com Internet USPS Rates Zip Code Lookup Supported Printers

Hi IA1,

Enter as much information as possible in one or more fields.

300 {

Last Name	smith	306
First Name		307
Phone #		308
User Name		309
Email Address		310
Account #		311
Customer ID		312 (Decimal)

302 {

Search 313 Clear 314

304 }

008707 1647660

FIGURE 4

Customer Search Results - Netscape

File Edit View Go Communicator Help

Bookmarks Location: http://trebek.82/cs/results.asp What's Related

stamps.com Customer Support

Information System Stamps.com Intranet USPS Rates Zip Code Lookup Supported Printers

	Last Name	First Name	User ID	User Name	Email	Phone #	Account #
401	Smith	Jon	5907011	test01	silkstamps@yahoo.com	(949)555-1212	17000019
402	Smith	Jon	5907013	sdct1	sdct01_us@yahoo.com	(949)555-1212	17000356
403	Smith	Jon	5907069	sdctesting1	sdct01_us@yahoo.com	(949)555-1212	17000357
404	Smith	Jon	5907043	sdct11	sdct01_us@yahoo.com	(949)555-1212	17000431
405	Smith	Jon	5907044	sdct12	sdct01_us@yahoo.com	(949)555-1212	17000432
406	Smith	Jon	5907045	sdct13	sdct01_us@yahoo.com	(949)555-1212	17000433
407	Smith	Scott	5907047	scotto	ssmith@stamps.com	(310)581-7630	17000435
408	Smith	Jon	5907048	will	silkstamps@yahoo.com	(949)555-1212	17004551
409	Smith	Jon	5907049	sdctesting123	silkstamps@yahoo.com	(949)555-1212	17004594
410	Smith	Jon	5907049	sdct9999	silkstamps@yahoo.com	(949)555-1212	17004689
411	Smith	Jon	5907049	sdct9998	silkstamps@yahoo.com	(949)555-1212	17004690
412	Smith	Jon	5907049	sdct9997	silkstamps@yahoo.com	(949)555-1212	17004691
413	Smith	Jon	5907049	sdct9996	silkstamps@yahoo.com	(949)555-1212	17004692
414	Smith	Jon	5907049	sdct9994	silkstamps@yahoo.com	(949)555-1212	17004694
415	Smith	Loren	5907049	lsmith	junk@stamps.com	(310)555-1212	17004696
416	Smith	Jon	5907049	sdct	silkstamps@yahoo.com	(949)555-1212	17004756
417	Smith	mike	5907049	miky	inirshberg@stamps.com	(310)324-5698	17004791
418	Smith	Jon	5907049	sdct9995	silkstamps@yahoo.com	(949)555-1212	17004901
419	Smith	Jon	5907049	sdct9980	silkstamps@yahoo.com	(949)555-1212	17004909
420	Smith	Scott	5907049	Tazman	ssmith@stamps.com	(212)555-1212	17004929

400

1 20 >>

FIGURE 5

CS profile - Netscape

File Edit View Go Communicator Help

Bookmarks Location http://trebek.82/cs/Profile.asp?cn=005a0850 What's Related

stamps.com Customer Support

Information System | Stamps.com Intranet | USPS Rates | Zip Code Lookup | Supported Printers

CS Home | Search | Customer Profile | Postal License | Email History | Close Account
Account Credits | Postage Transaction History | Account Status History | Reset Password

508

Last Name	Smith	First Name	Jon	Middle Name	D
User Name	sdc01	Customer ID	5900368	Account #	17000356

502

Account Status	Active	Date	3/29/2000 GMT
Status Reason	OK		
Available Balance	\$219.01	Total Postage Purchased	\$220.00
Last Print Date	4/11/2000 00:42 GMT	Total Stamps Printed	3
Initial Free Postage	0	Free Postage Expiration Date	N/A
Available Free Postage	0		
License Status	License Approved		
QA Postage Status	Not Received	Next QA Postage Due	4/3/2000 GMT
Service Plan	Simple Plan 0009	Next Statement Date	11/1/2000 GMT
Resubmission Required	Yes		
Card Holder Name	John D. Smith	Card Number Last 5	99999
Card Type	Visa	Expiration Date	02/2001

504

500

Company Name			
Title	Software Engineer		
Billing Address	100 TECHNOLOGY DR		
Billing City	IRVINE	State	CA ZIP 92618
Email	sdc01_us@yahoo.com	Last 4 SSN: 6789	
Phone #	(949)555-1212		
Fax #	(949)555-1313		
Comment:			
<input type="checkbox"/> Send Marketing Material			
<input type="checkbox"/> This is a demo account			
Submit			

506

Document Done

00541-10300

FIGURE 6

CS: Email History - Netscape

File Edit View Go Communicator Help

Bookmarks Location: http://trebek:82/cs/EmailHistory.asp?cn=005a0850

stamps.com Customer Support

Information Systems | Stamps.com Intranet | USPS Rates | Zip Code Lookup | Supported Printers

Home | Search | Links | News | Email History | Account History | Account Contact | Account Status | Account Settings

Last Name: Smith First Name: Jon Middle Name: D
 User Name: sdc01 Customer ID: 5900368 Account #: 17000356

602

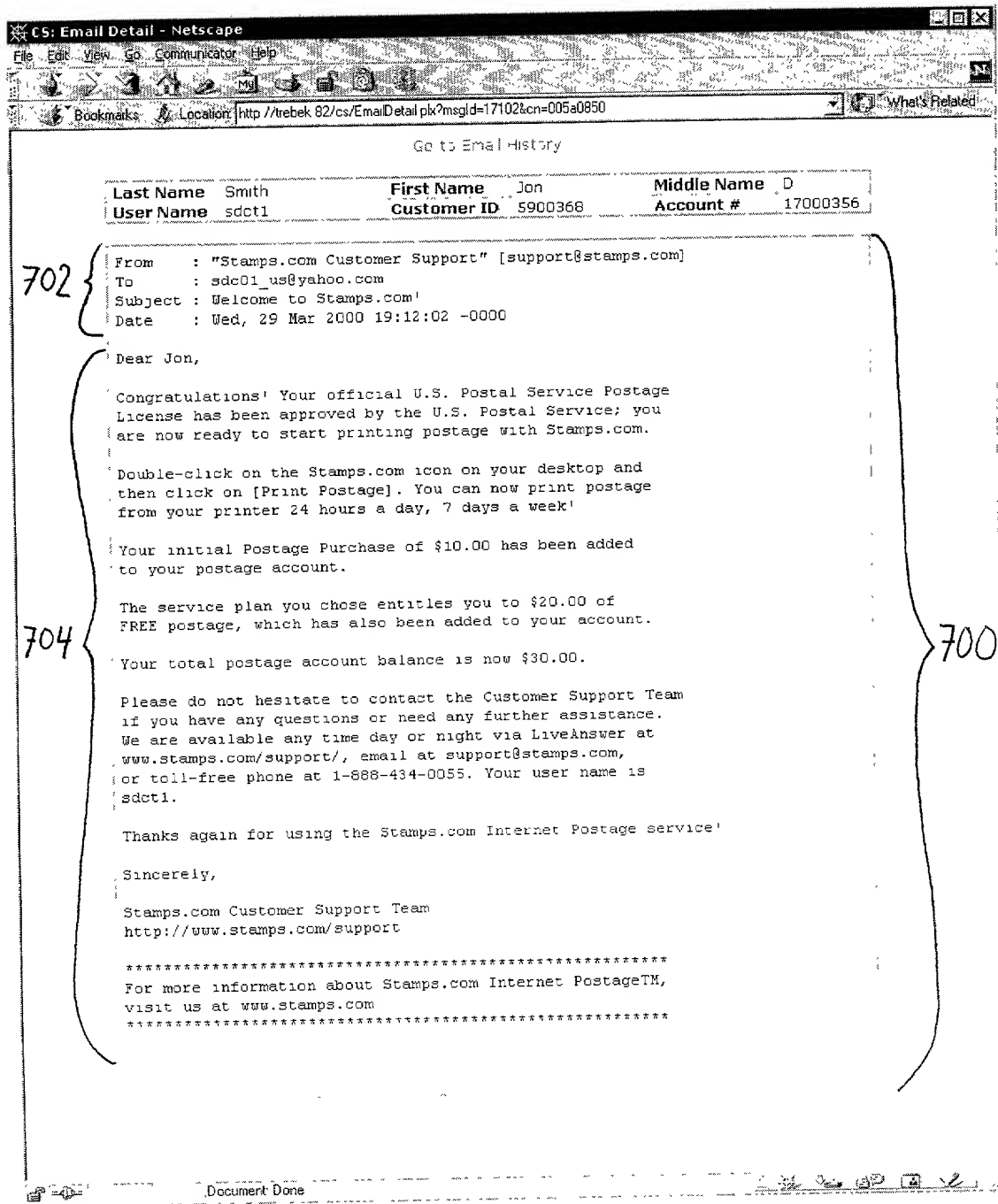
STATUS	FROM	TO	SUBJECT	DATE
Sent (Not Confirmed)	"Stamps.com Customer Support" [support@stamps.com]	sdc01_us@yahoo.com	Welcome to Stamps.com!	3/29/2000 19:14 GMT
Sent (Not Confirmed)	"Stamps.com Account Support" [accounts@stamps.com]	sdc01_us@yahoo.com	Package Tracking Information	4/6/2000 18:12 GMT
Sent (Not Confirmed)	"Stamps.com Account Support" [accounts@stamps.com]	sdc01_us@yahoo.com	Package Tracking Information	4/6/2000 18:19 GMT
Sent (Not Confirmed)	"Stamps.com Account Support" [accounts@stamps.com]	sdc01_us@yahoo.com	Package Tracking Information	4/6/2000 18:51 GMT
Sent (Not Confirmed)	"Stamps.com Account Support" [accounts@stamps.com]	sdc01_us@yahoo.com	Stamps.com Online Help	4/7/2000 00:33 GMT
Sent (Not Confirmed)	"Stamps.com Account Support" [accounts@stamps.com]	sdc01_us@yahoo.com	Package Tracking Information	4/18/2000 00:42 GMT
Sent (Not Confirmed)	"Stamps.com Account Support" [accounts@stamps.com]	sdc01_us@yahoo.com	Package Tracking Information	4/18/2000 00:49 GMT
Sent (Not Confirmed)	"Stamps.com Account Support" [accounts@stamps.com]	sdc01_us@yahoo.com	Package Tracking Information	4/20/2000 21:20 GMT
Sent (Not Confirmed)	"Stamps.com Account Support" [accounts@stamps.com]	sdc01_us@yahoo.com	Package Tracking Information	4/20/2000 21:21 GMT
Sent (Not Confirmed)	"Stamps.com Account Support" [accounts@stamps.com]	sdc01_us@yahoo.com	Package Tracking Information	4/20/2000 21:34 GMT
Sent (Not Confirmed)	"Stamps.com Account Support" [accounts@stamps.com]	sdc01_us@yahoo.com	Package Tracking Information	4/20/2000 21:34 GMT
Sent (Not Confirmed)	"Stamps.com Account Support" [accounts@stamps.com]	sdc01_us@yahoo.com	Package Tracking Information	4/20/2000 21:35 GMT
Sent (Not Confirmed)	"Stamps.com Account Support" [accounts@stamps.com]	sdc01_us@yahoo.com	Package Tracking Information	5/4/2000 01:16 GMT

Document Done

09691294 101300

600

FIGURE 7



0059131.10300

FIGURE 8

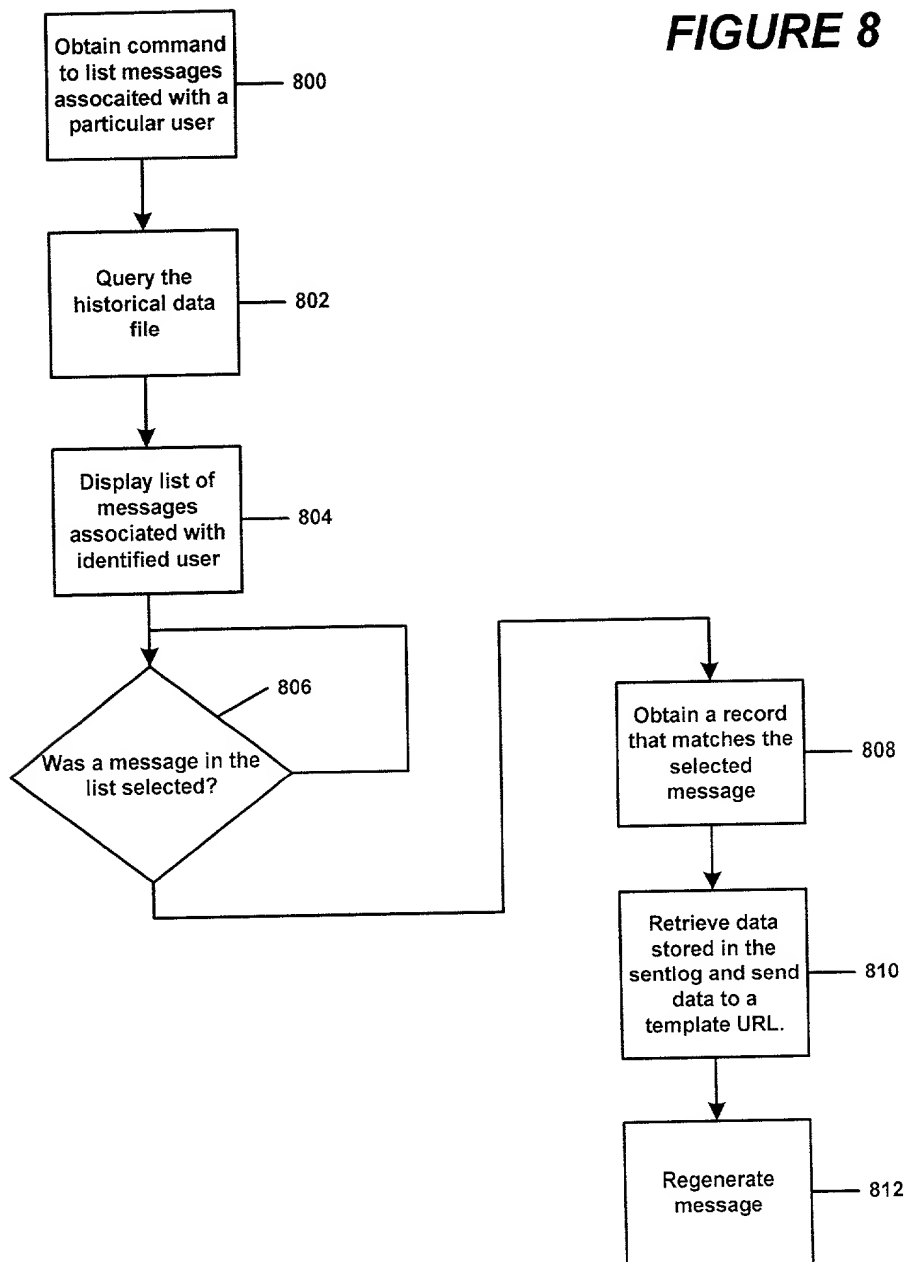


FIGURE 9

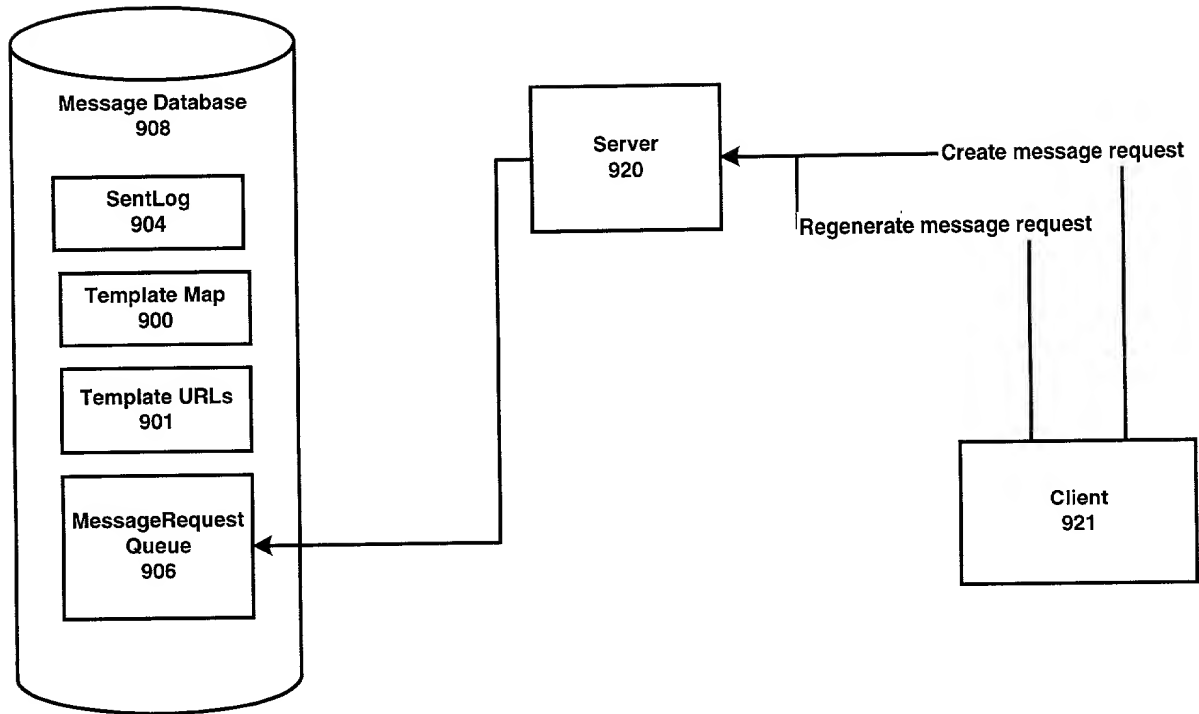


FIGURE 10

